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ATENT COOPERATION TRE "Y

To:

From the	INTERNATIONAL	BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)

04 October 2000 (04.10.00)

in its capacity as elected Office

International application No. PCT/US00/00824

International filing date (day/month/year) 12 January 2000 (12.01.00) MCK-005.25

Priority date (day/month/year)
12 January 1999 (12.01.99)

Applicant's or agent's file reference

Applicant

HUNT, Andrew, T. et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	09 August 2000 (09.08.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	,

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Manu Berrod

Facsimile No.: (41-22) 740.14.35 Telephone No.: (41-22) 338.83.38

WIPO

PCT

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT	Article	36 and	Rule	70)
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Applicant's	or age	nt's file reference		See Notific	ation of Transmittal of International
MCK-005			FOR FURTHER ACTI		/ Examination Report (Form PCT/IPEA/416)
Internationa	l applic	cation No.	International filing date (day)	/month/year)	Priority date (day/month/year)
PCT/US0	0/008	324	12/01/2000		12/01/1999
Internationa H01L39/2		nt Classification (IPC) or na	tional classification and IPC		
Applicant					
MICROC	OATI	NG TECHNOLOGIES	5, INC. et al.		
1. This in and is	nterna trans	ntional preliminary exami mitted to the applicant a	ination report has been pre according to Article 36.	epared by this Inte	ernational Preliminary Examining Authority
2. This F	REPO	RT consists of a total of	8 sheets, including this co	over sheet.	
b	een a	mended and are the ba	d by ANNEXES, i.e. sheet sis for this report and/or sh 07 of the Administrative Ins	eets containing re	on, claims and/or drawings which have ectifications made before this Authority he PCT).
These	anne	exes consist of a total of	f sheets.		
3. This r	eport ⊠	contains indications rela	ating to the following items:	:	
		Priority			
111	⋈		opinion with regard to nove	elty, inventive step	and industrial applicability
IV	\boxtimes	Lack of unity of inventi			
٧	⊠	Reasoned statement u	inder Article 35(2) with regions suporting such statem	ard to novelty, inv ent	entive step or industrial applicability;
VI		Certain documents cit	ted		
VII	\boxtimes		international application		
VIII	Ø	Certain observations of	on the international applicat	tion	
Date of sub	omissio	on of the demand		Date of completion o	f this report
09/08/20	00		2	22.05.2001	
		g address of the internation ining authority:	al	Authorized officer	SATIONES AVENCES
<u></u>	Euro	opean Patent Office	1,	Korh W	

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/00824

		is fth r port					
1.	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:						
	1-21		as originally filed				
	Clai	ms, No.:					
	1-19)	as originally filed				
	Dra	wings, sheets:					
	1/6-	6/6	as originally filed				
2.	With	n regard to the lang Juage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.				
	The	se elements were	available or furnished to this Authority in the following language: , which is:				
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pu	ublication of the international application (under Rule 48.3(b)).				
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule				
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the ir	nternational application in written form.				
		filed together with	the international application in computer readable form.				
	☐ furnished subsequently to this Authority in written form.						
	☐ furnished subsequently to this Authority in computer readable form.						
		The statement that the international a	at the subsequently furnished written sequence listing does not go beyond the disclosure in application as filed has been furnished.				
		The statement the listing has been fu	at the information recorded in computer readable form is identical to the written sequence urnished.				
4.	The	amendments have	e resulted in the cancellation of:				

pages:

Nos.:

☐ the description,

☐ the claims,

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/00824

		the drawings,	sheets:					
5.		☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):						
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this					
6.	Add	litional observations, i	f necessary:					
III.	Nor	n-establishment of o	pinion with regard to novelty, inventive step and industrial applicability					
1.	The obv	questions whether th	e claimed invention appears to be novel, to involve an inventive step (to be non- ally applicable have not been examined in respect of:					
		the entire internation	al application.					
	×	claims Nos. 11 - 18.						
be	caus	se:						
			application, or the said claims Nos. relate to the following subject matter which does ational preliminary examination (<i>specify</i>):					
			ns or drawings (indicate particular elements below) or said claims Nos. are so unclear pinion could be formed (specify):					
		the claims, or said cl could be formed.	aims Nos. are so inadequately supported by the description that no meaningful opinion					
	×	no international sear	ch report has been established for the said claims Nos. 11 - 18.					
2.	and	neaningful internationa Vor amino acid seque tructions:	al preliminary examination cannot be carried out due to the failure of the nucleotide nce listing to comply with the standard provided for in Annex C of the Administrative					
		the written form has	not been furnished or does not comply with the standard.					
			ole form has not been furnished or does not comply with the standard.					
IV	. Lac	ck of unity of inventi	on					
1.	In r	esponse to the invitat	ion to restrict or pay additional fees the applicant has:					
		restricted the claims						

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/00824

		paid additional fees.						
		paid additional fees unde	er prote:	st.				
	☒	neither restricted nor pai	d additi	onal fees				
2.		This Authority found that 68.1, not to invite the app	the req	uirement o restrict	of unity of invention is not complied and chose, according to Rule or pay additional fees.			
3.	This	s Authority considers that	the req	uirement	of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is			
		complied with.						
		not complied with for the	followin	ng reasor	ns:			
4.		nsequently, the following p mination in establishing th			national application were the subject of international preliminary			
		all parts.						
	×	the parts relating to clain	ns Nos.	1 - 10, 19	9.			
V.	Rea cita	asoned statement under Itions and explanations	· Article suppoi	: 35(2) wi ting suc	th regard to novelty, inventive step or industrial applicability; h statement			
1.	Stat	tement						
	Nov	velty (N)	Yes: No:	Claims Claims	1 - 4, 10, 19			
	Inve	entive step (IS)	Yes: No:	Claims Claims	1 - 10, 10			
	indi	ustrial applicability (IA)	Yes: No:	Claims Claims	1 - 10			

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain obs rvati ns n the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:



International application No. PCT/US00/00824

see separat sh et

EXAMINATION REPORT - SEPARATE SHEET

R Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

See International Search Report

Re Item IV

Lack of unity of invention

- 1. See the International Search Report.
- The subject-matter of independent claim 1 is already known. Furthermore the 2. subject-matter of claim 5 to which claim claims 6 and 8 refer to is not inventive (see the grounds for this objection Item V, 3., 2). The requisite unity of invention (Rule 13.1 PCT) therefore no longer exists inasmuch as a technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT does not exist between the subject-matter of the following groups of dependent claims:
 - Claim 6 An article wherein the final layer is an insulator.
 - Claim 8 An article wherein the final layer is a conductor.

For this lack of unity found in addition to the multiple inventions already addressed in the International Search Report it was chosen not to invite the applicant to restrict or pay additional fees.

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Reference is made to the following document: 1.
 - D1: US-A-5 741 377 (BUDAI JOHN D ET AL) 21 April 1998 (1998-04-21) cited in the application

INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

2. Document D1 already discloses (see D1, abstract, column 1, lines 46 - 54, column 3, lines 30 - 35, column 4, lines 14 - 20, column 5, line 38 column 6, line 10, figure 2, column 8, line 66 - column 9, line 63, column 11, line 54 - column 13, line 46) a textured Ni-containing substrate and an epitaxial buffer layer chosen from the group SrTiO₃, LaAlO₃ on said substrate. In consequence the subject-matter claimed in independent claims 1 and 10 is not new.

Furthermore D1 discloses (see D1, column 11, line 61 - column 12, line 18) performing chemical vapour deposition as a possibility for depositing the buffer layer. Thus a skilled man would select this possibility without the exercise of inventive skill. In consequence the subject-matter claimed in independent claim 19 lacks an inventive step.

- 3. Dependent claims 2 9 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as follows:
 - 1) The features of claims 2 4 are already known from D1.
 - 2) It is within the common knowledge of a skilled man to provide a protective final layer on a superconducting layer in order to avoid deterioration of the superconducting layer. Thus a skilled man would add a final layer on the superconducting layer as claimed in claim 5 without the exercise of inventive skill.
 - 3) Claims 6 9 relate to normal design options for a final layer.

Re Item VII

Certain defects in the international application

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

Certain obs rvations on th int rnational application

- 1. The brackets "[SrTiO₃,]" used in each of independent claims 1, 10, and 19 leave the reader in doubt as to the meaning of the technical feature concerned, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT).
- 2. The vague and imprecise statement in the description on page 21, lines 24 28 implies that the subject-matter for which protection is sought may be different to that defined by the claims, thereby resulting in lack of clarity (Article 6 PCT) when used to interpret them (see also the PCT Guidelines, III-4.3a).
- 3. The lack of clarity of the subject-matter for which protection is sought is reinforced by the definitions of the invention given in the description (see page 11) that differ from any of the independent claims 1, 10, and 19.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 20 July 2000 (20.07.2000)

PCT

(10) International Publication Number WO 00/42621 A3

(51) International Patent Classification⁷: H01L 39/24, H01M 8/02, H01G 4/06, B01D 71/02

(21) International Application Number: PCT/US00/00824

(22) International Filing Date: 12 January 2000 (12.01.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/115,519

12 January 1999 (12.01.1999) US

(71) Applicant (for all designated States except US): MICRO-COATING TECHNOLOGIES, INC. [US/US]; 3901 Green Industrial Way, Chamblee, GA 30341 (US).

(72) Inventors; and

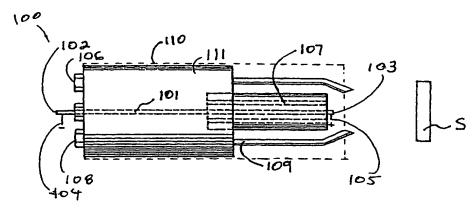
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- (74) Agents: KELLY, Edward, J. et al.; Foley, Hoag & Eliot, LLP, One Post Office Square, Boston, MA 02109 (US).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: EPITAXIAL THIN FILMS



(57) Abstract: Epitaxial thin films for use as buffer layers for high temperature superconductors, electrolytes in solid oxide fuel cells (SOFC), gas separation membranes or dielectric material in electronic devices, are disclosed. By using CCVD, CACVD or any other suitable deposition process, epitaxial films having pore-free, ideal grain boundaries, and dense structure can be formed. Several different types of materials are disclosed for use as buffer layers in high temperature superconductors. In addition, the use of epitaxial thin films for electrolytes and electrode formation in SOFCs results in densification for pore-free and ideal grain boundary/interface microstructure. Gas separation membranes for the production of oxygen and hydrogen are also disclosed. These semipermeable membranes are formed by high-quality, dense, gas-tight, pinhole free sub-micro scale layers of mixed-conducting oxides on porous ceramic substrates. Epitaxial thin films as dielectric material in capacitors are also taught herein. Capacitors are utilized according to their capacitance values which are dependent on their physical structure and dielectric permittivity. The epitaxial thin films of the current invention form low-loss dielectric layers with extremely high permittivity. This high permittivity allows for the formation of capacitors that can have their capacitance adjusted by applying a DC bias between their electrodes.

WO 00/42621 A3

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WO 00/42621 A3



Published:

with international search report

(88) Date of publication of the international search report: 2 August 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



Intern 1al Application No PCT/US 00/00824

A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER H01L39/24 H01M8/02 H01G4/0	6 B01D71/02		
According to	International Patent Classification (IPC) or to both national classific	ation and IPC		
B. FIELDS	SEARCHED			
Minimum do IPC 7	cumentation searched (classification system followed by classificati H01L	ion symbols)		
	ion searched other than minimum documentation to the extent that s		arched	
	ata base consulted during the international search (name of data baternal, PAJ, INSPEC, COMPENDEX	use and, where practical, search terms used)		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.	
A	US 5 741 377 A (BUDAI JOHN D ET 21 April 1998 (1998-04-21) cited in the application example 11	AL)	1	
		N Potost family market and listed	in anney	
Fun	ther documents are listed in the continuation of box C.	X Patent family members are listed	mi culton.	
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alon which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with one or more other such document is combined with on				
•	e actual completion of the international search	Date of mailing of the international sea	arch report	
	19 October 2000	2 6. 01. 01		
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fay: (+31-70) 340-3016.	Authorized officer PELSERS, L		

1



In. national application No. PCT/US 00/00824

Bxi	Obs rvations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	rnational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-10,19
Remark	The additional search fees were accompanied by the applicant's protest.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US 00/00824

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-10,19

Article and superconducting article comprising a buffer layer on a textured metal substrate

- 1.1. Claims: 11-15 an electrolyte for a fuel cell
- 1.2. Claim: 16
 a gas separation membrane
- 1.3. Claim: 17 18 a capaciter
- 2. Claims: 11-15

an electrolyte for a fuel cell

3. Claim: 16

a gas separation membrane

4. Claims: 17,18

a capacitor

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

INTERITIONAL SEARCH REPORT

information on patent family members

Interr nal Application No
PCT/US 00/00824

Patent document cited in search report		Publication date		atent family member(s)	Publication date
US 5741377	A	21-04-1998	AU AU CA EP JP US WO US	713892 B 5539896 A 2217822 A 0830218 A 11504612 T 5958599 A 9632201 A 5898020 A 5739086 A 5968877 A	16-12-1999 30-10-1996 17-10-1996 25-03-1998 27-04-1999 28-09-1999 17-10-1996 27-04-1999 14-04-1998 19-10-1999



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MCK-005.25	FOR FURTHER see Notification (Form PCT/ISA/	of Transmittal of International Search Report (220) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month/year)					
PCT/US 00/00824 12/01/2000 12/01/1999						
Applicant MICROCOATING TECHNOLOGIES	S, INC. et al.					
This International Search Report has be according to Article 18. A copy is being t	en prepared by this International Searching Aut transmitted to the International Bureau.	thority and is transmitted to the applicant				
	ts of a total of sheets. by a copy of each prior art document cited in this	s report.				
Basis of the report	the state of the s					
	e international search was carried out on the ba nless otherwise indicated under this item.	isis of the international application in the				
the international search Authority (Rule 23.1(b)).	was carried out on the basis of a translation of t	the international application furnished to this				
was carried out on the basis of t		nternational application, the international search				
	ternational application in computer readable for	m.				
furnished subsequently	to this Authority in written form.					
furnished subsequently	to this Authority in computer readble form.					
the statement that the su	ubsequently furnished written sequence listing o as filed has been furnished.	does not go beyond the disclosure in the				
		is identical to the written sequence listing has been				
2. Certain claims were fo	und unsearchable (See Box I).					
3. X Unity of invention is la	cking (see Box II).					
4. With regard to the title,						
	submitted by the applicant.					
the text has been establ	lished by this Authority to read as follows:					
5. With regard to the abstract,						
X the text is approved as s	submitted by the applicant.					
	lished, according to Rule 38.2(b), by this Author he date of mailing of this international search re					
6. The figure of the drawings to be put	blished with the abstract is Figure No.	1				
X as suggested by the app	olicant.	None of the figures.				
because the applicant fa	ailed to suggest a figure.					
because this figure bette	er characterizes the invention.					



International application No. PCT/US 00/00824

Box I	Observations where certain claims wer found unsearchable (Continuation of item 1 of first sheet)
This Inter	national Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inter	national Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-10,19
Remark	n Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-10 ,19

Article and superconducting article comprising a buffer layer on a textured metal substrate

1.1. Claims: 11-15 an electrolyte for a fuel cell

1.2. Claim : 16
a gas separation membrane

1.3. Claim : 17 18 a capaciter

2. Claims: 11-15

an electrolyte for a fuel cell

3. Claim: 16

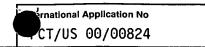
a gas separation membrane

4. Claims: 17,18

a capacitor

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

INTERNATIONAL SEARCH REPORT



A. CLASSII IPC 7	FICATION OF SUBJECT MATTER H01L39/24 H01M8/02 H01G4/0	6 B01D71/02				
	International Patent Classification (IPC) or to both national classific	ation and IPC				
	SEARCHED currentation searched (classification system followed by classification)	on symbols)				
IPC 7	H01L					
Documentat	ion searched other than minimum documentation to the extent that s	such documents are included in the fields se	arched			
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used))			
EPO-In	ternal, PAJ, INSPEC, COMPENDEX					
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.			
A	US 5 741 377 A (BUDAI JOHN D ET 21 April 1998 (1998-04-21) cited in the application example 11	AL)				
Further documents are listed in the continuation of box C. X Patent family members are listed in annex.						
° Special ca	tegories of cited documents :	"T" later document published after the inte	ernational filing date			
"A" document defining the general state of the art which is not cited to understand			the application but eory underlying the			
considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention						
filing date filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone						
which	which is cited to establish the publication date of another which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the					
	"O" document referring to an oral disclosure, use, exhibition or document is combined with one or more other such documents, such combination being obvious to a person skilled					
"P" docume	ent published prior to the international filing date but han the priority date claimed	in the art. "&" document member of the same patent	family			
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report			
19 October 2000 2 6. 01. 01						
Name and mailing address of the ISA Authorized officer Authorized officer						
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		PELSERS, L				

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US 5898020 A 27-04-1999 US 5739086 A 14-04-1999	US 5741377	21-04-1998	AU 5539896 A CA 2217822 A EP 0830218 A JP 11504612 T US 5958599 A WO 9632201 A US 5898020 A US 5739086 A	16-12-1999 30-10-1996 17-10-1996 25-03-1998 27-04-1999 28-09-1999 17-10-1996 27-04-1999 14-04-1998 19-10-1999